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RECENT BOOKS AND PAMPHLETS.—*Les Enchainements du Monde Animal dans les temps géologiques, Mammifères tertiaires*, par Albert Gaudry, Prof. de Paleont. au Mus. d'Hist. Naturelle de Paris. Avec 312 gravures dans le texte. 8vo, pp. 293. Paris, 1878. From the author.

*Contributions to Palaeontology*, No. 2. By S. A. Miller and C. B. Dyer. 8vo, pp. 11, pls. 3 and 4. Cincinnati, July 22, 1878. From the authors.

The Sixth Annual Report of the Board of Directors of the Zoölogical Society of Philadelphia. 8vo, pp. 28. From the society.

A Catalogue of the Flowering Plants and Higher Cryptogams growing without cultivation within thirty miles of Yale College. Published by the Berzelius Society. 8vo, pp. 71, and map. New Haven, 1878. From the society.

*Metasomatic Development of the Copper-bearing Rocks of Lake Superior*. By Raphael Pumpelly. (Abstract from the Proc. Am. Acad. of Arts and Sciences. Vol. xiii.) 8vo, pp. 253-309.

Report of the State Commissioners of Fisheries for the year 1877. 8vo, pp. 38. Harrisburg, 1878.

The Columella and Stapes in some North American Turtles. By Sarah P. Monks. (Read before the Am. Philos. Soc., March 1, 1878.) 8vo, pp. 335-337, pls. 16 and 17. From the authoress.

On the Respiration of *Amia*. By Burt G. Wilder, of Ithaca, N. Y. (Proc. Am. Assoc., Nashville, August, 1877.) 8vo, pp. 306-313. From the author.

Boletín del Ministerio de Fomento de la República Mexicana. (Daily Meteorological Report.) Folio, pp. 2. Mexico, 1878. From M. Bárcena, Director.

Mexican Contributions to the Bulletin of International Meteorological Observations, taken simultaneously on March, 1878. Mexico. From M. Bárcena, Director.

A further contribution to the knowledge of the existing Ziphoid Whales, genus *Mesoplodon*. By William Henry Flower, F.R.S., V.P.Z.S. (From the Trans. Zoöl. Society, Vol. x, Pt. ix, 1878.) 4to, pp. 416-437, pls. lxxi-lxxiii. London, 1878. From the author.

Bibliography of North American Invertebrate Palaeontology; being a report upon the publications that have hitherto been made upon the invertebrate palaeontology of North America, including the West Indies and Greenland. By C. A. White M.D., and H. Alleyne Nicholson, M.D., D.Sc. (Miscel. Publications, No. 10, U. S. Geol. Surv. of Territories.) 8vo, pp. 132. Washington, 1878. From the Depart. of the Interior.

Bulletin of the United States Geological and Geographical Survey of the Territories, Vol. iv, No. 3. 8vo, pp. 544-745. Washington, 1878. From F. V. Hayden, U. S. Geologist.

New Specimen from the Water-lime Group at Buffalo, N. Y. By A. R. Grote and W. H. Pitt, of Buffalo, N. Y. (Proc. Am. Ass., Nashville, August, 1877.) 8vo, pp. 300-302. From the authors.

Notice of the Discovery of the position of the Crural Processes in the genus *Atrypa*. By William Gurley. (Read before Am. Philos. Soc., March 1, 1878. 8vo, pp. 337-338, and plate 14. From the author.

On the Annual Deposit of the Missouri river during the Post-pliocene. By J. E. Todd, of Tabor, Iowa. (Proc. Am. Ass., Nashville, August, 1877.) 8vo, pp. 287-291. From the author.

Descriptive Catalogue of Photographs of North American Indians. By W. H. Jackson, Photographer of the Survey. (Miscel. Publications, No. 9, U. S. Geol. Surv. of Territories.) 8vo, pp. i-iv, 124. Washington, 1877. From F. V. Hayden, U. S. Geologist.

Preliminary Report of the Field Work of the U. S. Geological and Geographical Survey of the Territories for the Season of 1877. 8vo, pp. 35. Washington, 1877. From F. V. Hayden, Geologist-in-Charge.

Report of the Geological and Geographical Survey of the Rocky Mountain Region. By J. W. Powell. 8vo, pp. 19, with map. From the author.

Preliminary Report on the Palaeontology of the Black Hills. By R. P. Whitfield.

Containing descriptions of new species of fossils from the Potsdam, Jurassic and Cretaceous formations of the Black Hills of Dakota. 8vo, pp. 49. Washington, 1877. From J. W. Powell.

Note additionnelle au Mémoire sur les Phénomènes de la Digestion chez les Insectes (publié en 1874). Par Felix Plateau, Bruxelles, 1877. 8vo, pp. 25. From the author.

Recherches sur la Structure de l'Appareil Digestif et sur les Phénomènes de la Digestion chez les Araneides Dipneumones. Par Felix Plateau, Bruxelles, 1877. 8vo, pp. 136, 3 plates. From the author.

L'Instinct des Insectes, Peut-il être mis en Défaut par des Fleurs Artificielles? By M. Felix Plateau, Paris, 1876. 8vo, pp. 6.

Association Française pour l'avancement des Sciences, Congrès de Clermont—Terrand. Séance du 21 Août, 1876.

Geological Survey of Canada. Report of Progress for 1876-77. Alfred R. Selwyn, Director. Montreal, 1878. 8vo, pp. 515. Maps and illustrations. From the author.

Notes on the North American Caridea in the Museum of the Peabody Academy of Science, Salem, Mass. By J. S. Kingsley. (From the Proc. of the Academy of Natural Sciences of Philadelphia.) 8vo, pp. 19. From the author.

Entomological Notes. VI. By S. H. Scudder. (From the Proceedings of the Boston Society of Natural History, Vol. xix, 1877-78.) 8vo, pp. 51, 1 plate.

Smithsonian Contributions to Knowledge, 318. On the Remains of Later Pre-Historic Man, obtained from caves in the Catherina Archipelago, Alaska Territory, and especially from the caves of the Aleutian Islands. By W. H. Dall. Washington, 1878. 4to, pp. 40, 10 plates.

On *Distomum crassicolle* Rud.; with brief notes on Huxley's proposed Classification of Worms. (Memoirs read before the Boston Society of Natural History, February 21, 1877.) By Charles S. Minot. 4to, pp. 12, 1 plate.

On the Respiration of *Amia*. By Burt G. Wilder. (From the Proceedings of the American Association for the Advancement of Science, Nashville Meeting, August, 1877.) 8vo, pp. 8.

On the Annual Deposit of the Missouri river, during the Post-Pliocene. By J. E. Todd. (From the Proceedings of the American Association for the Advancement of Science, Vol. xxvi, August, 1877.) 8vo, pp. 5.

Jahres-Bericht des Naturhistorischen Vereins von Wisconsin für das Jahr, 1877-78. Milwaukee, 1877. 8vo, pp. 17.

Brehm's Thierleben. Band. 4, Heft 1-3. Band 10, Heft 11. New York, B. Westermann & Co. 8vo, 40 cents a Heft.

Notice of the Discovery of the position of the Crural Processes in the genus *Atrypa*. By William Gurley. (Read before the American Philosophical Society, March, 1878.) 8vo, pp. 2, 1 plate.

Cotton and the Principal Insects. etc., frequenting or injuring the Plant in the United States. Written and etched by Townsend Glover. Washington, 1878. 4to, pp. 21, 22 plates.

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## GENERAL NOTES.

### BOTANY.

FERNS, IN THEIR HOMES AND OURS.<sup>1</sup>—We have often deplored the scarcity in this country, of popular handy books upon scientific topics. In England and on the continent, there is hardly a single department of natural science which has not, by means of low-priced manuals, received illustration at the hands of compe-

<sup>1</sup> Ferns in their Homes and Ours. By John Robinson. Salem, S. E. Cassino. 1878. 12mo, pp. 178.